PATENT
PU030244

Listing and Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently amended) A broadcast router, comprising:

a plurality of input cards for inputting data into the broadcast router;

a plurality of output cards for outputting the data from the broadcast router;

at least one programmable device; and

a configuration control card for storing configuration information for configuring the at least one programmable device to perform a first set of functions,

wherein the configuration control card is ~~adapted~~ configured for removal and replacement by at least one other configuration control card that stores other configuration information for configuring the at least one programmable device to perform a second set of functions having a difference from the first set of functions so as to change a functionality of the broadcast router.

2. (Original) The broadcast router of claim 1, wherein the broadcast router employs switch points, the data received by the plurality of input cards includes input streams, and the one or more functionalities comprise at least one of fading at the switch points, receiving alternate input streams, remote error monitoring, signal mixing, at least one of altering and enabling Digital Signal Processor (DSP) functions, metering, and modifying router size.

3. (Currently amended) The broadcast router of claim 1, wherein the stored configuration information comprises at least one selected from a group consisting of:

~~at least one of~~ configuration data for Field Programmable Gate Arrays (FPGAs),

~~at least one of~~ checksums and codes to ~~at least one of~~ enable ~~and~~ or disable logic in at least one of the FPGAs ~~and~~ or other custom Integrated Circuits (ICs),

~~at least one of~~ checksums and codes that ~~at least one of~~ enable ~~and~~ or disable different functionality of CPU-based state machines within the broadcast router, and

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executable code that at least one of enables and or disables different

functionality of CPU-based systems within the broadcast router.

4. (Original) The broadcast router of claim 1, wherein the difference involves

at least one of adding at least one new function and removing at least one existing

function.

5. (Original) The broadcast router of claim 1, wherein the at least one

programmable device is disposed on at least one of the plurality of input cards and the

plurality of output cards.

6. (Original) The broadcast router of claim 1, further comprising:

an expansion card for receiving the data from the plurality of input cards and

arranging the data for transfer within the broadcast router; and

a matrix card for receiving the data from the plurality of input cards for

subsequent routing within the broadcast router.

7. (Original) The broadcast router of claim 6, wherein at least one of the

expansion card and the matrix card provides support protocols to change input/output

assignments of the data.

8. (Currently amended) The broadcast router of claim 6 1, further comprising:

a combined expansion/matrix card for receiving the data from the

plurality of input cards and arranging the data for transfer within the broadcast router

and for receiving the data from the plurality of input cards for subsequent routing

within the broadcast router. wherein the expansion card and the matrix card are

implemented on a same card.

9. (Original) The broadcast router of claim 6, wherein the at least one

programmable device is disposed on at least one of the expansion card and the matrix

card.

10. (Original) The broadcast router of claim 1, further comprising a control card for providing support protocols to change input/output assignments of the data.

11. (Original) The broadcast router of claim 6, wherein the at least one programmable device is disposed on at least the control card.

12. (Original) The broadcast router of claim 1, wherein at least a portion of at least one of the configuration information and the other configuration information is encrypted.

13. (Original) The broadcast router of claim 1, wherein the configuration control card comprises a user-input device for receiving a user input for initiating a configuration of the at least one programmable device.

14. (Currently amended) A method for changing a functionality of a broadcast router, the broadcast router at least having a plurality of input cards, a plurality of outputs cards, and at least one programmable device, the method comprising the step of:

providing a replaceable configuration control card for insertion into the broadcast router and for storing configuration information for configuring the at least one programmable device to perform a first set of functions,

wherein the configuration control card is ~~adapted~~ configured for removal and replacement by at least one other configuration control card that stores other configuration information for configuring the at least one programmable device to perform a second set of functions having a difference from the first set of functions so as to change a functionality of the broadcast router.

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15. (Original) The method of claim 14, wherein the broadcast router employs switch points, the data received by the plurality of input cards includes input streams, and the one or more functionalities comprise at least one of fading at the switch points, receiving alternate input streams, remote error monitoring, signal mixing, at least one of altering and enabling Digital Signal Processor (DSP) functions, metering, and modifying router size.

16. (Currently amended) The method of claim 14, wherein the configuration information comprises at least one selected from a group consisting of:
at least one of configuration data for Field Programmable Gate Arrays (FPGAs),
at least one of checksums and codes to at least one of enable and or disable logic in at least one of the FPGAs and or other custom Integrated Circuits (ICs),
at least one of checksums and codes that at least one of enable and or disable different functionality of CPU-based state machines within the broadcast router, and
executable code that at least one of enables and or disables different functionality of CPU-based systems within the broadcast router.

17. (Original) The method of claim 14, wherein the difference involves at least one of adding at least one new function and removing at least one existing function.

18. (Original) The method of claim 14, wherein at least a portion of at least one of the configuration information and the other configuration information is encrypted.

19. (Currently amended) A broadcast router, comprising:
a plurality of input cards for receiving data into the broadcast router;
an expansion card for receiving the data from the plurality of input cards and arranging the data for transfer within the broadcast router;
a matrix card for receiving the data from the plurality of input cards for subsequent routing within the broadcast router;

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a plurality of output cards for receiving the data from the matrix card and for outputting the data from the broadcast router;

at least one programmable device; and

a configuration control card for storing configuration information for configuring the at least one programmable device to perform a first set of functions,

wherein the configuration control card is ~~adapted~~ configured for removal and replacement by at least one other configuration control card that stores other configuration information for configuring the at least one programmable device to perform a second set of functions having a difference from the first set of functions so as to change a functionality of the broadcast router.

20. (Original) The broadcast router of claim 19, wherein the broadcast router employs switch points, the data received by the plurality of input cards includes input streams, and the one or more functionalities comprise at least one of fading at the switch points, receiving alternate input streams, remote error monitoring, signal mixing, at least one of altering and enabling Digital Signal Processor (DSP) functions, metering, and modifying router size.

21. (Currently amended) The broadcast router of claim 19, wherein the configuration information comprises at least one selected from a group consisting of:

~~at least one of~~ configuration data for Field Programmable Gate Arrays (FPGAs),

~~at least one of~~ checksums and codes to ~~at least one of~~ enable ~~and~~ or disable logic in at least one of the FPGAs ~~and~~ or other custom Integrated Circuits (ICs),

~~at least one of~~ checksums and codes that ~~at least one of~~ enable ~~and~~ or disable different functionality of CPU-based state machines within the broadcast router, and executable code that ~~at least one of~~ enables ~~and~~ or disables different functionality of CPU-based systems within the broadcast router.

22. (Original) The broadcast router of claim 19, wherein the at least one programmable device is disposed on at least one of the plurality of input cards, the expansion card, the matrix card, and the plurality of output cards.

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23. (Original) The broadcast router of claim 19, further comprising a control card for providing support protocols to change input/output assignments of the data.

24. (Original) The broadcast router of claim 23, wherein the at least one programmable device is disposed on at least the control card.

25. (Original) The broadcast router of claim 19, wherein at least a portion of at least one of the configuration information and the other configuration information is encrypted.